

October 19, 2017

California Department of Public Health
Public Water Supply Section
Attn: Mr. Sean Sterchi
State Building, Room 2050
1350 Front Street
San Diego, CA 92101

Dear Mr. Sterchi:

Subject: City of San Diego's Report of the 2017 Lead and Copper Monitoring for System 3710020

Enclosed is the City of San Diego's Report of the 2017 Lead and Copper Residential Monitoring for System 3710020 which includes:

- Report Form 141-a (rev)
- Copper Monitoring results for 64 residences - 90th Percentile of 613 µg/L
- Lead Monitoring results for 64 residences - 90th Percentile of <5 µg/L
- WQP Data for 64 residences
- Summary of Changes in Sampling Sites
- Sampling Instructions to Residents
- Sample Consumer Notice of Results
- Consumer Notice Certification

The City's 90th percentile Lead and Copper results are below their respective Action Levels.

The City's 2017 monitoring program requested participation from 221 eligible sites, via letter, in two mailings. Of the 54 participating sites from 2014, 30 were included in the 2017 study. An additional eight sites from a 2016 special study were also included. City staff left email and telephone messages with the non-responsive 2014 sites, unless the phone number was disconnected, unlisted, or unanswered. Additional sites were added to meet the 50 site requirement targeting previously underserved neighborhoods. See summary below.

In 2017, the 67 participating sites included:

- 29 repeat sites from 2014
- 8 sites from the 2016 special study
- 7 replacement sites
- 20 new tier 1 sites
- 3 sites disqualified, two have water softeners, and one sample had a laboratory error.

If you have any questions concerning these reports, please call me at (619) 668-3237.

Sincerely,



Doug Campbell
Senior Chemist - Water Quality Laboratory

SAMPLE SITE JUSTIFICATION/COLLECTION METHOD CERTIFICATION

**** Please make copies of this form for your files to submit to DPH with future rounds of sampling.**

System's Name: City of San Diego

Type: ☒ CWS ☐ NTNCWS

Address: City of San Diego Public Utilities Department

9192 Topaz Way, MS 901

Size: ☒ >100,000
☐ 50,001 to 100,000
☐ 10,001 to 50,000
☐ 3,301 to 10,000
☐ 501 to 3,300
☐ 101 to 500
☐ ≤ 100

San Diego, CA 92123

Telephone Number (619) 668-3237 Fax number: _____

System ID number: 3710020

Sampling Round ☐ First ☐ Second

Contact Person: Doug Campbell

☐ Reduced Annual
☒ Reduced Triennial

THE LAB RESULTS OF LEAD AND COPPER TAP WATER SAMPLES MUST BE ATTACHED TO THIS DOCUMENT

90% Lead level: < 5.0 ug/L

of samples required: 50

of samples submitted: 64

90% Copper level: 613 ug/L

TARGETING CRITERIA

# of single-family structures with copper pipes with lead solder installed after 1982 or lead pipes and/or lead service lines (Tier 1)	<u>213 (96%)</u>
# of multi-family structures with copper pipes with lead solder installed after 1982 or lead pipes and/or lead service lines. Multi-family residents comprise at least 20% of structures served. (Tier 1)	<u> </u>
# of multi-family structures with copper pipes with lead solder installed after 1982 or lead pipes and/or lead service lines (Tier 2)	<u> </u>
# of single family structures with copper pipes with lead solder installed before 1983 (Tier 3)	<u>53 (25%)</u>

TOTAL 221

Explanation of Tier 2 and Tier 3 sites (attach additional pages if necessary)

Tier 3 letters include residences that previously had lead service lines and participated in prior studies. Those service lines have since been replaced.

LEAD SERVICE LINE SITES

# of samples required to be drawn from lead service line sites	<u>0</u>
# of samples actually drawn from lead service line sites	<u>0</u>
Difference (explain differences other than zero)	<u>0</u>

Method used to identify lead service line sites (attach additional pages if necessary):

Building records and visual inspection of service lines by crews. All known lead service lines have been replaced

SAMPLE SITE JUSTIFICATION/COLLECTION METHOD CERTIFICATION

THE RESULTS OF WATER QUALITY PARAMETER (WQP) SAMPLES MUST BE ATTACHED TO THIS DOCUMENT

of samples required
to be collected _____ 50
of WQP entry point samples
required to be collected _____ 0

of WQP tap samples actually
collected and submitted _____ 64
of WQP entry point samples actually
collected and submitted _____ 0

CERTIFICATION OF COLLECTION METHODS

I certify that:

1. Each first draw tap sample for lead and copper is one liter in volume and has stood motionless in plumbing system of each sampling site for at least six hours.
2. Each first draw sample collected from a single-family residence has been collected from the cold water kitchen tap or bathroom sink tap.
3. Each first draw sample collected from a non-residential building has been collected at an interior tap from which water is typically drawn for consumption.
4. Each first draw sample collected during an annual or triennial monitoring period has been collected in months of June, July, August, or September.
5. Each resident who volunteered to collect tap water samples from his or her home has been properly instructed by the City of San Diego in the proper methods for collecting lead and copper samples. I do not challenge the accuracy of those sampling results. Enclosed is a copy of the material distributed to residents explaining the proper collection methods, and a list of the residents explaining the proper collection methods, and a list of the residents who performed sampling.

CHANGE OF SAMPLING SITE

Original site address: _____ See Attachment


New site address: _____ See Attachment

Distance between sites (approximately): _____ See Attachment

Targeting Criteria: NEW: _____ See Attachment OLD: _____

Reason for change (attach additional pages if necessary): _____

Non-response of residents; all non-respondents from mailing were followed up with email or phone call if these contact sources were available. _____

SIGNATURE: 

Doug Campbell
NAME (PRINT) _____

Senior Chemist
TITLE _____

October 19, 2017
DATE _____

City of San Diego Water Quality Laboratory
Environmental Monitoring and Technical Services Division
Lead and Copper Rule Sampling 2017

City of San Diego 90th Percentile Lead = <5

Lead Reporting Limit = 5 ug/L

Pb Rank	Location	Sample Id	Sample Date	LEAD	Units
1	Kingsgate Sq. 92128	W1190475	17-Aug-17	<5	ug/L
2	Cool Lake Way 92128	W1190477	17-Aug-17	<5	ug/L
3	Fairway Pt. Row 921128	W1190944	18-Aug-17	<5	ug/L
4	Caminito Del Cervato 92111	W1190946	18-Aug-17	<5	ug/L
5	E. Fox Run Way 92111	W1190948	18-Aug-17	<5	ug/L
6	Caminito Del Cervato 92111	W1190950	17-Aug-17	<5	ug/L
7	Caminito Del Pastel 92111	W1190952	17-Aug-17	<5	ug/L
8	Benson Ave (Timothy Winters St) 92114	W1191087	21-Aug-17	<5	ug/L
9	Caminito Listo 92111	W1191448	22-Aug-17	<5	ug/L
10	Camino Ramillette 92128	W1191450	22-Aug-17	<5	ug/L
11	Montcliff Rd. 92139	W1192315	28-Aug-17	<5	ug/L
12	Illion Street 92110	W1192441	29-Aug-17	<5	ug/L
13	Gregory St. 92104	W1192580	30-Aug-17	<5	ug/L
14	Mountain Glen Terrace 92131	W1192669	31-Aug-17	<5	ug/L
15	Cerro Gordo Ave. 92102	W1193761	5-Sep-17	<5	ug/L
16	Bluehaven Ct. 92154	W1193763	4-Sep-17	<5	ug/L
17	Vintage Dr. 92129	W1193822	6-Sep-17	<5	ug/L
18	Whaley Ave. 92104	W1195303	12-Sep-17	<5	ug/L
19	Felton St. 92102	W1195305	13-Sep-17	<5	ug/L
20	Felton St. 92104	W1195485	14-Sep-17	<5	ug/L
21	Caminito Pointe Del Mar 92014	W1195487	14-Sep-17	<5	ug/L
22	50th St. 92102	W1195636	14-Sep-17	<5	ug/L
23	Gayneswood Way 92139	W1195642	15-Sep-17	<5	ug/L
24	W. Fox Run Way 92111	W1195981	19-Sep-17	<5	ug/L
25	Janet Pl. 92115	W1195983	18-Sep-17	<5	ug/L
26	Caminito Bracho 92128	W1196551	20-Sep-17	<5	ug/L
27	Fantasy Ln. 92173	W1196553	20-Sep-17	<5	ug/L
28	Lister St. 92110	W1196555	20-Sep-17	<5	ug/L
29	6 Mira Montana Dr. 92014	W1196569	18-Sep-17	<5	ug/L
30	6 Candela Pl. 92130	W1196571	18-Sep-17	<5	ug/L
31	Logan Ave. 92113	W1196578	20-Sep-17	<5	ug/L
32	Bluehaven Ct. 92154	W1196655	20-Sep-17	<5	ug/L
33	Bedel Ct. 92129	W1196657	20-Sep-17	<5	ug/L
34	Avenida Magnifica 92131	W1196777	22-Sep-17	<5	ug/L
35	Caminito Suero 92122	W1196779	22-Sep-17	<5	ug/L
36	Sherbrooke Street 92139	W1196849	19-Sep-17	<5	ug/L
37	oth Court 92114	W1196877	22-Sep-17	<5	ug/L
38	Guacamayo Ct. 92128	W1196879	23-Sep-17	<5	ug/L

Sampling conditions: household taps, 6-12 hr water non-use prior to sampling, collect 1 L without flushing

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City of San Diego Water Quality Laboratory
Environmental Monitoring and Technical Services Division
Lead and Copper Rule Sampling 2017

City of San Diego 90th Percentile Lead = <5

Lead Reporting Limit = 5 ug/L

Pb Rank	Location	Sample Id	Sample Date	LEAD	Units
39	Stoney Gate Place 92128	W1196881	24-Sep-17	<5	ug/L
40	Bluehaven Ct. 92154	W1196883	25-Sep-17	<5	ug/L
41	Madera Rose Way 92124	W1196902	25-Sep-17	<5	ug/L
42	Alsacia St. 92139	W1196930	25-Sep-17	<5	ug/L
43	Hagerswood Ct. 92129	W1197054	26-Sep-17	<5	ug/L
44	Madera Rosa Wy. 92124	W1197056	26-Sep-17	<5	ug/L
45	Rock Creek Dr. 92131	W1197058	26-Sep-17	<5	ug/L
46	Epsilon St 92113	W1197072	26-Sep-17	<5	ug/L
47	Creighton Way 92114	W1197085	26-Sep-17	<5	ug/L
48	Calamar Cv. 92124	W1197309	26-Sep-17	<5	ug/L
49	Benson Ave. 92114	W1197311	27-Sep-17	<5	ug/L
50	Illion Street 92110	W1197313	27-Sep-17	<5	ug/L
51	Calamar Dr. 92124	W1197574	24-Sep-17	<5	ug/L
52	Bluehaven Ct. 92154	W1197917	22-Sep-17	<5	ug/L
53	Knight Drive 92126	W1197919	27-Sep-17	<5	ug/L
54	Elderwood Ct 92131	W1197921	28-Sep-17	<5	ug/L
55	Overton Ave. 92123	W1197923	28-Sep-17	<5	ug/L
56	Henson St 92114	W1197925	28-Sep-17	<5	ug/L
57	Shadewood Ln. 92139	W1197927	28-Sep-17	<5	ug/L
58	Calamar Dr. 92124	W1197929	28-Sep-17	<5	ug/L
59	Guacamayo Ct. 92128	W1198201	28-Sep-17	<5	ug/L
60	Ochre Ct. 92128	W1198219	29-Sep-17	<5	ug/L
61	Gregory St. 92102	W1198415	28-Sep-17	<5	ug/L
62	Petirrojo Ct 92124	W1197060	26-Sep-17	6.46	ug/L
63	Mira Montana Dr. 92014	W1192586	30-Aug-17	7.23	ug/L
64	La Jolla Blvd. 92037	W1192045	24-Aug-17	16.1	ug/L

Sampling conditions: household taps, 6-12 hr water non-use prior to sampling, collect 1 L without flushing

City of San Diego Water Quality Laboratory
Environmental Monitoring and Technical Services Division
Lead and Copper Rule Sampling 2017

City of San Diego 90th Percentile Copper = 613 ug/L

Copper Reporting Limit = 50 ug/L

Cu Rank	Location	Sample Id	Sample Date	COPPER	Units
1	E. Fox Run Way 92111	W1190948	18-Aug-17	<50	ug/L
2	Gregory St. 92104	W1192580	30-Aug-17	<50	ug/L
3	50th St. 92102	W1195636	14-Sep-17	<50	ug/L
4	Creighton Way 92114	W1197085	26-Sep-17	<50	ug/L
5	Fantasy Ln. 92173	W1196553	20-Sep-17	56.9	ug/L
6	Logan Ave. 92113	W1196578	20-Sep-17	58.9	ug/L
7	Guacamayo Ct. 92128	W1198201	28-Sep-17	79.8	ug/L
8	Petirrojo Ct 92124	W1197060	26-Sep-17	91.6	ug/L
9	Caminito Suero 92122	W1196779	22-Sep-17	96.4	ug/L
10	Cool Lake Way 92128	W1190477	17-Aug-17	100	ug/L
11	Candela Pl. 92130	W1196571	18-Sep-17	112	ug/L
12	Bedel Ct. 92129	W1196657	20-Sep-17	120	ug/L
13	Illion Street 92110	W1197313	27-Sep-17	129	ug/L
14	Felton St. 92102	W1195305	13-Sep-17	132	ug/L
15	Benson Ave (Timothy Winters St) 92114	W1191087	21-Aug-17	140	ug/L
16	Caminito Listo 92111	W1191448	22-Aug-17	141	ug/L
17	Rock Creek Dr. 92131	W1197058	26-Sep-17	147	ug/L
18	Gregory St. 92102	W1198415	28-Sep-17	149	ug/L
19	Bluehaven Ct. 92154	W1196655	20-Sep-17	154	ug/L
20	Guacamayo Ct. 92128	W1196879	23-Sep-17	159	ug/L
21	Calamar Dr. 92124	W1197574	24-Sep-17	159	ug/L
22	Calamar Dr. 92124	W1197929	28-Sep-17	165	ug/L
23	Madera Rosa Wy. 92124	W1197056	26-Sep-17	167	ug/L
24	Madera Rose Way 92124	W1196902	25-Sep-17	184	ug/L
25	Caminito Del Cervato 92111	W1190950	17-Aug-17	187	ug/L
26	Vintage Dr. 92129	W1193822	6-Sep-17	205	ug/L
27	Janet Pl. 92115	W1195983	18-Sep-17	205	ug/L
28	Camino Ramillette 92128	W1191450	22-Aug-17	217	ug/L
29	Lister St. 92110	W1196555	20-Sep-17	225	ug/L
30	5 Mountain Glen Terrace 92131	W1192669	31-Aug-17	231	ug/L
31	Caminito Del Cervato 92111	W1190946	18-Aug-17	251	ug/L
32	9 Stoney Gate Place 92128	W1196881	24-Sep-17	251	ug/L
33	Benson Ave. 92114	W1197311	27-Sep-17	259	ug/L
34	Calamar Cv. 92124	W1197309	26-Sep-17	269	ug/L
35	W. Fox Run Way 92111	W1195981	19-Sep-17	270	ug/L
36	Overton Ave. 92123	W1197923	28-Sep-17	271	ug/L
37	Illion Street 92110	W1192441	29-Aug-17	272	ug/L
38	Felton St. 92104	W1195485	14-Sep-17	276	ug/L

Sampling conditions: household taps, 6-12 hr water non-use prior to sampling, collect 1 L without flushing

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City of San Diego Water Quality Laboratory
Environmental Monitoring and Technical Services Division
Lead and Copper Rule Sampling 2017

City of San Diego 90th Percentile Copper = 613 ug/L

Copper Reporting Limit = 50 ug/L

Cu Rank	Location	Sample Id	Sample Date	COPPER	Units
40	Roth Court 92114	W1196877	22-Sep-17	285	ug/L
41	Henson St 92114	W1197925	28-Sep-17	286	ug/L
42	La Jolla Blvd. 92037	W1192045	24-Aug-17	294	ug/L
43	Avenida Magnifica 92131	W1196777	22-Sep-17	294	ug/L
44	Caminito Del Pastel 92111	W1190952	17-Aug-17	342	ug/L
45	Montcliff Rd. 92139	W1192315	28-Aug-17	343	ug/L
46	Alsacia St. 92139	W1196930	25-Sep-17	343	ug/L
47	Whaley Ave. 92104	W1195303	12-Sep-17	347	ug/L
48	Elderwood Ct 92131	W1197921	28-Sep-17	348	ug/L
49	Knight Drive 92126	W1197919	27-Sep-17	387	ug/L
50	Mira Montana Dr. 92014	W1192586	30-Aug-17	388	ug/L
51	Fairway Pt. Row 921128	W1190944	18-Aug-17	410	ug/L
52	Mira Montana Dr. 92014	W1196569	18-Sep-17	428	ug/L
53	Ochre Ct. 92128	W1198219	29-Sep-17	434	ug/L
54	Caminito Bracho 92128	W1196551	20-Sep-17	461	ug/L
55	Sherbrooke Street 92139	W1196849	19-Sep-17	530	ug/L
56	Kingsgate Sq. 92128	W1190475	17-Aug-17	558	ug/L
57	Cerro Gordo Ave. 92102	W1193761	5-Sep-17	576	ug/L
58	Bluehaven Ct. 92154	W1196883	25-Sep-17	613	ug/L
59	Gayneswood Way 92139	W1195642	15-Sep-17	665	ug/L
60	Bluehaven Ct. 92154	W1193763	4-Sep-17	814	ug/L
61	Shadewood Ln. 92139	W1197927	28-Sep-17	815	ug/L
62	Epsilon St 92113	W1197072	26-Sep-17	1020	ug/L
63	Caminito Pointe Del Mar 92014	W1195487	14-Sep-17	1030	ug/L
64	Bluehaven Ct. 92154	W1197917	22-Sep-17	1260	ug/L

Sampling conditions: household taps with lead solder, 6-12 hr water non-use prior to sampling, collect 1 L without flushing

City of San Diego Water Quality Laboratory
Environmental Monitoring and Technical Services Division
Lead and Copper Rule Sampling 2017

Lead and Copper Results by House #

City of San Diego 90th Percentile Lead = < 5 ug/L

City of San Diego 90th Percentile Copper = 613 ug/L

Action Levels: Cu = 1,300 ug/L Pb = 15 ug/L

	Location	Sample Id	Sample Date	Copper [ug/L]	Cu rank	Lead [ug/L]	Pb rank
1	Knight Drive 92126	W1197919	27-Sep-17	387	49	<5	53
2	Mountain Glen Terrace 92131	W1192669	31-Aug-17	231	30	<5	14
3	Rock Creek Dr. 92131	W1197058	26-Sep-17	147	17	<5	45
4	Elderwood Ct 92131	W1197921	28-Sep-17	348	48	<5	54
5	Avenida Magnifica 92131	W1196777	22-Sep-17	294	43	<5	34
6	Ochre Ct. 92128	W1198219	29-Sep-17	434	53	<5	60
7	Madera Rosa Wy. 92124	W1197056	26-Sep-17	167	23	<5	44
8	Madera Rose Way 92124	W1196902	25-Sep-17	184	24	<5	41
9	Calamar Cv. 92124	W1197309	26-Sep-17	269	34	<5	48
10	Calamar Dr. 92124	W1197929	28-Sep-17	165	22	<5	58
11	Calamar Dr. 92124	W1197574	24-Sep-17	159	21	<5	51
12	Petirrojo Ct 92124	W1197060	26-Sep-17	91.6	8	6.46	62
13	Fairway Pt. Row 921128	W1190944	18-Aug-17	410	51	<5	3
14	Kingsgate Sq. 92128	W1190475	17-Aug-17	558	56	<5	1
15	Hagerswood Ct. 92129	W1197054	26-Sep-17	277	39	<5	43
16	Guacamayo Ct. 92128	W1196879	23-Sep-17	159	20	<5	38
17	Camino Ramillette 92128	W1191450	22-Aug-17	217	28	<5	10
18	Candela Pl. 92130	W1196571	18-Sep-17	112	11	<5	30
19	Guacamayo Ct. 92128	W1198201	28-Sep-17	79.8	7	<5	59
20	Caminito Bracho 92128	W1196551	20-Sep-17	461	54	<5	26
21	Caminito Pointe Del Mar 92014	W1195487	14-Sep-17	1030	63	<5	21
22	Gregory St. 92102	W1198415	28-Sep-17	149	18	<5	61
23	Cool Lake Way 92128	W1190477	17-Aug-17	100	10	<5	2
24	Mira Montana Dr. 92014	W1196569	18-Sep-17	428	52	<5	29
25	Stoney Gate Place 92128	W1196881	24-Sep-17	251	32	<5	39
26	Mira Montana Dr. 92014	W1192586	30-Aug-17	388	50	7.23	63
27	Henson St 92114	W1197925	28-Sep-17	286	41	<5	56
28	Vintage Dr. 92129	W1193822	6-Sep-17	205	26	<5	17
29	50th St. 92102	W1195636	14-Sep-17	<50	3	<5	22
30	Sherbrooke Street 92139	W1196849	19-Sep-17	530	55	<5	36
31	Shadewood Ln. 92139	W1197927	28-Sep-17	815	61	<5	57
32	Whaley Ave. 92104	W1195303	12-Sep-17	347	47	<5	18
33	Bluehaven Ct. 92154	W1196883	25-Sep-17	613	58	<5	40
34	Felton St. 92102	W1195305	13-Sep-17	132	14	<5	19
35	Bluehaven Ct. 92154	W1196655	20-Sep-17	154	19	<5	32
36	Bluehaven Ct. 92154	W1197917	22-Sep-17	1260	64	<5	52
37	Montcliff Rd. 92139	W1192315	28-Aug-17	343	45	<5	11
38	Bluehaven Ct. 92154	W1193763	4-Sep-17	814	60	<5	16
39	Illion Street 92110	W1197313	27-Sep-17	129	13	<5	50
40	Fantasy Ln. 92173	W1196553	20-Sep-17	56.9	5	<5	27
41	Roth Court 92114	W1196877	22-Sep-17	285	40	<5	37
42	Felton St. 92104	W1195485	14-Sep-17	276	38	<5	20
43	Illion Street 92110	W1192441	29-Aug-17	272	37	<5	12
44	Gregory St. 92104	W1192580	30-Aug-17	<50	2	<5	13
45	Logan Ave. 92113	W1196578	20-Sep-17	58.9	6	<5	31
46	E. Fox Run Way 92111	W1190948	18-Aug-17	<50	1	<5	5
47	W. Fox Run Way 92111	W1195981	19-Sep-17	270	35	<5	24

City of San Diego Water Quality Laboratory
Environmental Monitoring and Technical Services Division
Lead and Copper Rule Sampling 2017

Lead and Copper Results by House #

City of San Diego 90th Percentile Lead = < 5 ug/L
City of San Diego 90th Percentile Copper = 613 ug/L
Action Levels: Cu = 1,300 ug/L Pb = 15 ug/L

	Location	Sample Id	Sample Date	Copper [ug/L]	Cu rank	Lead [ug/L]	Pb rank
48	Caminito Suero 92122	W1196779	22-Sep-17	96.4	9	<5	35
49	Epsilon St 92113	W1197072	26-Sep-17	1020	62	<5	46
50	Janet Pl. 92115	W1195983	18-Sep-17	205	27	<5	25
51	Lister St. 92110	W1196555	20-Sep-17	225	29	<5	28
52	La Jolla Blvd. 92037	W1192045	24-Aug-17	294	42	16.1	64
53	Creighton Way 92114	W1197085	26-Sep-17	<50	4	<5	47
54	Benson Ave. 92114	W1197311	27-Sep-17	259	33	<5	49
55	Caminito Del Cervato 92111	W1190946	18-Aug-17	251	31	<5	4
56	Caminito Del Cervato 92111	W1190950	17-Aug-17	187	25	<5	6
57	Caminito Del Pastel 92111	W1190952	17-Aug-17	342	44	<5	7
58	Benson Ave 92114	W1191087	21-Aug-17	140	15	<5	8
59	Caminito Listo 92111	W1191448	22-Aug-17	141	16	<5	9
60	Alsacia St. 92139	W1196930	25-Sep-17	343	46	<5	42
61	Gayneswood Way 92139	W1195642	15-Sep-17	665	59	<5	23
62	Cerro Gordo Ave. 92102	W1193761	5-Sep-17	576	57	<5	15
63	Overton Ave. 92123	W1197923	28-Sep-17	271	36	<5	55
64	Bedel Ct. 92129	W1196657	20-Sep-17	120	12	<5	33

City of San Diego Water Quality Laboratory
Environmental Monitoring and Technical Services Division
Lead and Copper Rule Sampling 2017

WQP Data - 2017 Sites

	Location	Sample Date	pH	Alkalinity [mg/L]	Calcium Hardness [mg/L]	Total Hardness [mg/L]
1	Knight Drive, 92126	27-Sep-17	7.88	81.0	81.6	135
2	Avenida Magnifica, 92131	22-Sep-17	8.15	91.0	85.0	138
3	Mountain Glen Terr, 92131	31-Aug-17	8.45	83.9	79.5	136
4	Rock Creek Drive, 92131	26-Sep-17	8.06	88.0	82.1	136
5	Elderwood Ct, 92131	28-Sep-17	8.00	80.6	85.1	140
6	Ochre Ct, 92128	29-Sep-17	7.99	80.2	83.2	139
7	Madera Rosa Wy, 92124	26-Sep-17	7.89	92.3	86.2	142
8	Madera Rosa Way, 92124	25-Sep-17	7.89	88.7	83.4	138
9	Calamar Cv, 92124	26-Sep-17	8.16	77.2	73.7	111
10	Calamar Dr, 92124	28-Sep-17	7.71	78.5	74.0	111
11	Calamar Dr, 92124	24-Sep-17	8.20	78.0	74.5	113
12	Petirrojo Court, 92124	26-Sep-17	8.15	84.3	72.9	109
13	Fairway Pt. Row, 92128	18-Aug-17	7.99	87.4	81.9	135
14	Kingsgate Sq, 92128	17-Aug-17	7.98	84.0	80.8	133
15	Hagerswood Ct, 92129	26-Sep-17	8.01	85.8	79.7	132
16	Guacamayo Ct, 92128	23-Sep-17	7.92	84.6	74.2	114
17	Camino Ramillette, 92128	22-Aug-17	8.03	88.6	79.3	134
18	Candela Pl, 92130	18-Sep-17	8.03	87.6	80.7	131
19	Guacamayo Ct, 92128	28-Sep-17	8.26	78.2	73.4	109
20	Caminito Bracho, 92128	20-Sep-17	7.96	89.5	77.6	128
21	Caminito Pointe, 92014	14-Sep-17	7.40	74.1	81.4	134
22	Gregory St, 92102	30-Aug-17	7.78	84.1	84.7	141
23	Cool Lake Way, 92128	17-Aug-17	7.99	87.1	82.5	136
24	Mira Montana Dr, 92014	18-Sep-17	7.99	89.0	79.0	130
25	Stoney Gate Place, 92128	24-Sep-17	7.89	83.9	80.1	127
26	Mira Montana Dr, 92014	30-Aug-17	7.91	80.0	81.7	134
27	Henson St, 92114	28-Sep-17	7.80	90.1	90.4	158
28	Vintage Dr, 92129	6-Sep-17	8.02	84.7	81.6	133
29	50th St, 92102	14-Sep-17	8.06	82.2	85.6	143
30	Sherbrooke St, 92139	19-Sep-17	7.86	121	101	190
31	Shadewood Ln, 92139	28-Sep-17	7.84	126	110	217
32	Whaley Ave, 92104	12-Sep-17	7.88	90.6	84.3	139
33	Bluehaven Ct, 92154	25-Sep-17	7.80	135	110	214
34	Felton St, 92102	13-Sep-17	7.92	88.3	84.1	137
35	Bluehaven Ct, 92154	20-Sep-17	7.91	137	109	212
36	Bluehaven Ct, 92154	22-Sep-17	7.59	126	68.4	223
37	Montcliff Rd, 92139	28-Aug-17	7.90	106	97.3	178
38	Bluehaven Ct, 92154	4-Sep-17	7.91	128	107	210
39	Illion St, 92110	27-Sep-17	7.94	79.5	79.5	128
40	Fantasy Ln, 92173	20-Sep-17	7.89	133	108	211
41	Roth Ct, 92114	22-Sep-17	7.80	102	90.7	158
42	Felton St, 92104	14-Sep-17	7.87	84.0	86.6	145
43	Illion St, 92110	29-Aug-17	7.86	83.2	81.3	136
44	Gregory St, 92104	30-Aug-17	7.89	84.1	84.7	141
45	Logan Ave, 92113	20-Sep-17	7.94	112	95.5	173
46	E. Fox Run Way, 92111	18-Aug-17	8.06	89.0	79.7	127

City of San Diego Water Quality Laboratory
Environmental Monitoring and Technical Services Division
Lead and Copper Rule Sampling 2017

WQP Data - 2017 Sites

	Location	Sample Date	pH	Alkalinity [mg/L]	Calcium Hardness	Total Hardness
47	W Fox Run Way, 92111	19-Sep-17	8.07	89.9	80.2	132
48	Caminito Suero, 92122	22-Sep-17	8.00	86.8	81.6	133
49	Epsilon St, 92113	26-Sep-17	7.91	128	112	221
50	Janet Place, 92115	18-Sep-17	8.31	89.6	82.9	137
51	Lister St, 92110	20-Sep-17	7.92	88.7	82.2	136
52	La Jolla Blvd, 92037	24-Aug-17	8.15	82.7	82.5	133
53	Creighton Way, 92114	26-Sep-17	7.83	87.9	89.0	155
54	Benson Ave, 92114	27-Sep-17	7.95	90.6	90.0	159
55	Caminito Del Cervato, 92111	18-Aug-17	8.22	86.9	75.9	122
56	Caminito Del Cervato, 92111	17-Aug-17	8.14	87.2	75.9	121
57	Caminito Del Pastel, 92111	17-Aug-17	8.02	90.3	81.5	134
58	Benson Ave, 92114	21-Aug-17	8.24	89.7	82.1	136
59	Caminito Listo, 92111	22-Aug-17	8.18	90.2	77.2	129
60	Alsacia St, 92139	25-Sep-17	7.39	126	105	199
61	Gayneswood Way, 92139	15-Sep-17	7.93	88.6	86.2	151
62	Cerro Gordo Ave, 92102	5-Sep-17	8.08	87.1	84.5	140
63	Overton Ave, 92123	28-Sep-17	7.65	80.2	85.1	142
64	Bedel Ct, 92129	20-Sep-17	7.87	89.3	82.7	135

City of San Diego Water Quality Laboratory
Environmental Monitoring and Technical Services Division
Lead and Copper Rule Sampling 2017

Summary of Changes in Sampling Sites for 2017

2014 Participating Address	2017 Replacement Addresses	Approximate Distance between sites
[REDACTED] Ito Court, San Diego 92114	[REDACTED] Roth Ct, San Diego 92114	0.1 mi
[REDACTED] Ochre Ct, San Diego 92128	[REDACTED] Stoney Gate Place, San Diego 92128	1.4 mi
[REDACTED] Pepperbrook Ln, San Diego 92131	[REDACTED] Rock Creek Drive, San Diego 92131	0.2 mi
[REDACTED] Illion St, San Diego 92110	[REDACTED] Illion street, San Diego 92110	0.1 mi
[REDACTED] Granada Ave, San Diego 92104	[REDACTED] Whaley Ave, San Diego 92104	1.0 mi
[REDACTED] 63rd St, San Diego 92114	[REDACTED] Benson Ave, San Diego 92114	0.2 mi

2016 Participating Address	2017 Replacement Address	Approximate Distance between sites
[REDACTED] Madera Rosa Way, San Diego 92124	[REDACTED] Madera Rosa Wy, San Diego 92124	0.2 mi

Sampling Procedure

Please sample Monday-Friday prior to September 30, 2017

THANK YOU for participation in our lead and copper study. The success of this program depends on the proper collection of water samples. Before collecting any samples, please read the following sampling instructions carefully. If you have any questions or problems, please call or email Tom Burger at 1-619-668-3234.

Sampling Instructions

Please collect the water samples from either a **kitchen or bathroom faucet** that is used regularly. Select a faucet that is not serviced by a home water treatment device, such as a water softener, water filter, or reverse osmosis device. Please collect both samples from the same faucet.

First, allow the water to sit in the pipes throughout your entire house for **at least six hours**. Most participants let water sit overnight and collect samples first thing in the morning. Place a note on faucets and toilets if you think some members of your family may forget and use the water during the six hour period. Put some water in the refrigerator for people to drink. Turn off appliances that use water, such as automatic ice-makers or automatic irrigation systems. If someone inadvertently uses water during these six hours, please choose another day for sampling.

After the water has sat in your pipes for at least six hours, collect the samples using the following procedure:

- The **smaller**, one-liter bottle should be filled **first**. This bottle needs to be filled with the first water that exits your faucet. This sample will be analyzed for lead and copper.
 - Remove the cap from the one-liter bottle and place on a clean counter.
 - Please do not rinse the bottle or let the bottle touch the faucet.
 - Collect the **first draw of COLD water** from the kitchen or bathroom faucet, filling to within 2 inches of the top.
 - Place the cap back on the bottle and tighten. On the label please write your NAME, ADDRESS, DATE, and TIME the sample was taken.
- Next, collect the larger two-liter sample. This sample will be used to test for various water quality parameters.
 - Let the cold-water faucet run at a moderate rate of flow for approximately one minute before collecting this second sample.
 - Fill the two-liter bottle with the cold water and replace the cap.
 - On the label please write your NAME, ADDRESS, DATE, and TIME the sample was taken.

On the same day you take the samples, please leave the samples on your front porch, and contact me at 1-619-668-3234 or tburger@sandiego.gov to arrange for sample pick-up by our staff. When the study has been completed you will receive a letter with your results and a summary of the results of the study.

Once again, thank you for your assistance.

Tom Burger, Associate Chemist
City of San Diego Water Quality Laboratory
tburger@sandiego.gov

October 16, 2017

John Doe
123 Main Street
San Diego, CA 92129

Dear Resident:

Thank you for participating in the City of San Diego's 2017 Lead and Copper Study. You are part of the U.S. Environmental Protection Agency's (EPA) nationwide program designed to determine if significant levels of lead or copper are leaching into your drinking water from corrosion of your home plumbing. The results of the samples from your residence are included in this letter.

As part of the EPA's nationwide Lead and Copper Rule, Action Levels (ALs) have been established for the 90th percentile value. If the 90th Percentile values fall above the AL (in other words, if more than 10% of the samples are above the AL), the City would need to comply with additional requirements aimed at lowering these levels.

The table below indicates the results from your residence, the 90th percentile values for the samples in this study, and the Action Levels for lead and copper. Results are presented in the units of parts per million (ppm). As 1% is equivalent to 1 in 100, one ppm is equivalent to 1 in 1,000,000. DDW requires that our instrumentation detect lead to a value of 0.005 ppm and copper to a value of 0.050 ppm. However, our laboratory is able to detect lead and copper at the lower values of 0.00050 and 0.001 ppm, respectively. If your residence has a value of "ND", your result was below our instrument's capability.

The results of the samples from your residence are as follows:

PARAMETER	YOUR RESIDENCE	90 TH PERCENTILE	ACTION LEVEL
Lead	0.00147 ppm	0.0029 ppm	0.015 ppm
Copper	0.12 ppm	0.613 ppm	1.3 ppm

Any observed lead levels in residences may be due to conditions unique to the home, such as the presence of lead solder or brass faucets, fittings and valves that may contain lead— you may be surprised to learn that, until 2010, law allowed pipes and fixtures with up to 8% lead to be labeled as "lead free". The 90th percentile values for lead and copper listed in the table, which were calculated from the results of all residences that participated in this study, are both significantly less than their respective Action Level. This indicates that the City of San Diego Public Utilities Department is effectively controlling corrosion. The water we deliver to your residence does not contain levels of lead or copper above detection levels set by DDW. In addition, we specifically treat our water to reduce the potential for lead and copper to enter your drinking water from corrosion of your home plumbing system.

Included with this letter is a fact sheet containing information provided by the EPA. We encourage you to take the steps included therein to reduce your exposure to lead in drinking water. For more information on reducing lead exposure around your home and the health effects of lead, visit EPA's website at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD (5323), contact your health care provider, or contact the City of San Diego Public Utilities Department Water Quality Chemistry Services using the information provided on the next page.

Page 2
John Doe
October 13, 2017

Thank you very much for your participation in this study; your assistance has helped ensure delivery of safe drinking water to residents. We hope this experience has been informative to you and your family.

If you would like more information concerning this study, your results, or have any suggestions on how we can make the program more convenient and/or beneficial for participants, please contact Tom Burger at the City of San Diego Water Quality Laboratory: tburger@sanidiego.gov or 619-668-3234.

For general information or questions about San Diego's water quality, contact our laboratory at 619-668-3232 or drinkingwaterquality@sanidiego.gov.

Sincerely,

Doug Campbell
Senior Chemist

Lead and Copper Information Sheet

The following is compiled from information provided on the EPA's website for the Lead and Copper Rule and is provided as an attachment to the results letters for the City of San Diego's 2016 Lead and Copper Study. For additional information, please see the Lead and Copper Rule website at the following address (or simply search "EPA Lead and Copper"). The website is: www.epa.gov/dwreginfo/lead-and-copper-rule

What Are The Sources of Lead?

The primary sources of lead exposure for most children are deteriorating lead-based paint, lead contaminated dust, and lead-contaminated residential soil. Exposure to lead is a significant health concern, especially for young children and infants whose growing bodies tend to absorb more lead than the average adult. Lead is rarely found in source water, but enters tap water through corrosion of plumbing materials. Homes built before 1986 are more likely to have lead pipes, fixtures and solder. You cannot see, taste, or smell lead dissolved in water.

What are lead's health effects?

Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink water in excess of the action level over many years could develop kidney problems or high blood pressure.

What Can I Do To Reduce Exposure to Lead in Drinking Water?

- **Run your water to flush out lead.** If water hasn't been used for several hours, run water for 15-30 seconds or until it becomes cold or reaches a steady temperature before using it for drinking or cooking. This will help flush any lead-containing water from the pipes.
- **Use cold water for cooking.** Do not cook with or drink water from the hot water tap; lead dissolves more easily into hot water.
- **Do not boil water to remove lead.** Boiling water will not reduce lead.
- **Test your water for lead.** Call us at the number provided to find out how to get your water tested for lead.
- **Identify if your plumbing fixtures contain lead.** New brass faucets, fittings, and valves, including those advertised as "lead-free," may contribute lead to drinking water. Until 2014 the law allowed end-use brass fixtures, such as faucets, with up to 8% lead to be labeled as "lead free." Consumers should be aware of this and take appropriate precautions.

What are EPA's drinking water regulations for lead and copper?

In 1974, Congress passed the Safe Drinking Water Act. This law requires EPA to determine the level of contaminants in drinking water at which no adverse health effects are likely to occur with an adequate margin of safety. These non-enforceable health goals, based solely on possible health risks, are called maximum contaminant level goals (MCLG). The MCLG is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. Under the authority of the Safe Drinking Water Act, EPA set the Action Level for lead at 0.015 ppm, and 1.3 ppm for copper. This means utilities must ensure that water from the customer's tap does not exceed this level in at least 90 percent of the homes sampled (90th percentile value).

For most contaminants, EPA sets an enforceable regulation called a maximum contaminant level (MCL) based on the MCLG. MCLs are set as close to the MCLGs as possible, considering cost, benefits and the ability of public water systems to detect and remove contaminants using suitable treatment technologies. However, because lead and copper contamination of drinking water often results from corrosion of the plumbing materials within a residence, EPA established a treatment technique rather than an MCL for lead and copper. A treatment technique is an enforceable procedure or level of technological performance which water systems must follow to ensure control of a contaminant. The treatment technique regulation for lead (referred to as the Lead and Copper rule) requires water systems to control the corrosivity of the water. The regulation also requires systems to collect tap samples from sites served by the system that are more likely to have plumbing materials containing lead. If more than 10% of tap water samples exceed the action levels, then water systems are required to take additional actions.

Lead Consumer Notice Certification Form

City of San Diego

PWSID: 3710020

Monitoring period June 1, 2017 thru September 30, 2017

Date results were finalized by laboratory: October 10, 2017

Letters sent to consumers: October 17, 2017

The water system named above hereby certifies that its lead consumer notice has been provided to each person it serves at the specific sampling site from which the sample was tested. The water system also certifies that these results and the following information were provided to such persons within 30 days of receiving the test results from the laboratory:

- ☒ Individual tap results from lead and copper monitoring carried out under the requirements of 40 CFR 141.86
- ☒ An explanation of the health effects of lead.
- ☒ Steps that consumers can take to reduce exposure to lead in drinking water
- ☒ Contact information for our water utility.
- ☒ The maximum contaminant level goals and action levels for lead, and the definitions of these two terms from 40 CFR 141.153(c).

Certified by:



Doug Campbell

Senior Chemist, City of San Diego Water Quality Laboratory
619-668-3237

Consumer notice was distributed by U.S. mail.